



Attorney/Docket No. 23100.64  
Customer No. 000027683

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:	§	
McAnalley et al.	§	Group Art Unit: 1654
	§	
Serial No. 10/797,344	§	Examiner: N/A
	§	
Filed: March 10, 2004	§	Confirmation No.: 4291
	§	
For: COMPOSITIONS OF PLANT	§	
CARBOHYDRATES AS	§	
DIETARY SUPPLEMENTS	§	

**INFORMATION DISCLOSURE STATEMENT**

Mail Stop Amendment  
Commissioner For Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

In compliance with the duty of disclosure under 37 CFR §1.56, and in accordance with the practice under 37 CFR §1.97 and §1.98, the Examiner's attention is directed to the documents listed on the enclosed modified Form PTO-1449. No inference should be made that the cited references are in fact material, are in fact prior art, or that no better art exists. The cited patents are listed in numerical order and are not in any order based on their pertinence.

Pursuant to 37 CFR §1.98(d), no copies of the cited references are enclosed since the references were provided in the parent application, U.S. Serial No. 09/242,215.

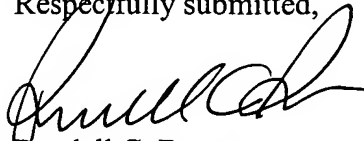
It is requested that the Examiner fully consider the cited references and that they be cited on the front of any patent issuing from this application.

An early action on the merits is respectfully requested.

The Commissioner is hereby authorized to charge any additional fees which may be required or credit any overpayment to Deposit Account 08-1394.

It is respectfully requested that the above information be considered by the Examiner and that a copy of the enclosed Form PTO-1449 be returned indicating that such information has been considered.

Respectfully submitted,



Randall C. Brown

Registration No. 31,213

Date: July 6, 2004  
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**Certificate of Mailing**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Commissioner For Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on 7/6/2004.

Ellen Lovelace  
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Ellen Lovelace  
Signature

In place of PTO-1449 Form		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  JUL 08 2004 <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)		Complete if Known	
		Application Number		10/797,344	
		Filing Date		March 10, 2004	
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		Art Unit		1654	
		Examiner Name		Unknown	
		Attorney Docket Number		23100.64	
SHEET	1	OF	10		

#### U. S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		3,890,438	6/1975	Cayen et al.
		3,947,601	3/1976	Ortega
		4,260,603	4/1981	Pegel et al.
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#### FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite No.	Foreign Patent Document (Country Code - Number - Kind)	Publication Date MM-DD-YYYY	Patentee or Applicant of Cited Document	Translation Y/N
		WO 9506068 A1	03/1995	YAMADA et al.	
		WO 9303727	04/1993	Hilsted	
		JP 57/007,420	1/1982		
		EP 0052171	5/1982		
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		RU 2097041	11/1997		
		WO 98 06418	2/1998		
		JP 63294766 A	12/1988	TAMAI, SEIJI	

Examiner Signature		Date Considered	
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OTHER PRIOR ART		
Examiner's Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item, date, page(s), volume, issue number(s), publisher, city/country where published
		Citkowitz, E., Developmental Biology (1972), 27: 494-503. "Analysis of the Isolated Hyaline Layer of Sea Urchin Embryos."
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		Alan D. Elbein, "Inhibitors of the Biosynthesis and Processing of N-Linked Oligosaccharide Chains," Ann. Rev. Biochem., 1987, Vol. 56, Pages 497-534.
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		Alan D. Elbein, "Inhibitors of the Biosynthesis and Processing of N-Linked Oligosaccharide Chains," Ann. Rev. Biochem., 1987, Vol. 56, Pages 497-534.
		Richard L. Jackson et al., "Glycosaminoglycans: Molecular Properties, Protein Interactions, and Role in Physiological Processes," Physiological Reviews, 1991, Vol. 71, No. 2, Pages 481-539.
		Arthur D. Lander, "Proteoglycans in the Nervous System," Current Opinion in Neurobiology, 1993, Vol. 3, Pages 716-23.
		Guido David, "Structural and Functional Diversity of the <u>Heparan Sulfate Proteoglycans</u> ," Heparin and Related Polysaccharides, Plenum Press, 1992, Pages 69-78.
		Geraldine McDowell and William A. Gahl, "Inherited Disorders of Glycoprotein Synthesis: Cell Biological Insights," Society for Experimental Biology and Medicine, 1997, Vol. 215, Pages 145-57.
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		G. Doria et al., "Age-Dependent Variations of Antibody Avidity," Immunology, 1978, Vol. 35, Pages 601-11.
		Hironori Matsuda et al., "Proton Nuclear Magnetic Resonance Studies of the Structure of the Fc Fragment of Human Immunoglobulin G1: Comparisons of Native and Recombinant Proteins," Molecular Immunology, 1990, Vol. 27, No. 6, Pages 571-79.
		Norio Koide et al., "Recognition of IgG by Fc Receptor and Complement: Effects of Glycosidase Digestion," Biochemical and Biophysical Research Communications, 1977, Vol. 75, No. 4, Pages 838-44.
		John Lund et al., "A Protein Structural Change in Aglycosylated IgG3 Correlates with Loss of huFcγR1 and huFcγR111 Binding And/Or Activation," Molecular Immunology, 1990, Vol. 27, Pages 1145-53.
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		Johann Deisenhofer et al., "Crystallographic Structural Studies of a Human Fc Fragment," Hoppe-Seyler's Z. Physiol. Chem., 1976, Vol. 357, Pages 1421-1434.
		Jeffrey C. Edberg and Robert P. Kimberly, "Cell Type-Specific Glycoforms of FcγR111a (CD 16), "The American Association of Immunologists, 1997, Pages 3849-57.
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		Kelly P. Kearse and Gerald W. Hart, "Topology of O-Linked N-Acetylglucosamine in Murine Lymphocytes," Archives of Biochemistry and Biophysics, November 1991, Vol. 290, No. 2, Pages 543-48.
		M.R. Sairam, "Role of Carbohydrates in Glycoprotein Hormone Signal Transduction," The FASEB Journal, June 1989, Vol. 3, Pages 1915-1926.
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		M.R. Sairam et al., "Mechanism of Gonadotropin Action-Dissociation of Receptor Binding and Cellular Activation," Progress in Endocrinology, 1988, Pages 1025-1031.
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		Stephen P. Jackson and Robert Tjian, "Purification and Analysis of RNA Polymerase II Transcription Factors by Using Wheat Germ Agglutinin Affinity Chromatography," Proc. Natl. Acad. Sci., USA, March 1989, Vol. 86, Pages 1781-1785.
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		Rüdiger Göke et al., "Glycosylation of the GLP-1 Receptor Is a Prerequisite for Regular Receptor Function," Peptides, 1994, Vol. 15, No. 4, Pages 675-681.
		David A. Jans et al., "N-Glycosylation Plays a Role in Biosynthesis and Internalization of the Adenylate Cyclase Stimulating Vasopressin V <sub>2</sub> -Receptor of LLC-PK <sub>1</sub> Renal Epithelial Cells: An Effect of Concanavalin A on Building and Expression," Archives of Biochemistry and Biophysics, 1992, Vol. 294, No. 1, Pages 64-69.
		Stuart Kornfeld, "Trafficking of Lysosomal Enzymes," The FASEB Journal, 1987, Vol. 1, Pages 462-468.
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		Pauline M. Rudd et al., "The Effects of Variable Glycosylation on the Functional Activities of Ribonuclease, Plasminogen and Tissue Plasminogen Activator," Biochimica et Biophysica Acta, 1995, Vol. 1248, Pages 1-10.
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		Donald J. Davidson et al., "The Influence of the Nature of the Asparagine 289-linked Oligosaccharide on the Activation by Urokinase and Lysine Binding Properties of Natural and Recombinant Human Plasminogens," J. Clin. Invest., July 1993, Vol. 92, Pages 249-254.
		Susan C. Howard et al., "Oligosaccharides at each Glycosylation Site Make Structure-Dependent Contributions to Biological Properties of Human Tissue Plasminogen Activator," Glycobiology, 1991, Vol. 1, No. 4, Pages 411-417.
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		Frank I. Comer and Gerald W. Hart, "Dynamic Glycosylation of RNA Polymerase II," Molecular Biology of the Cell Abstracts, Abstract 2414, 1995, Page 415a.
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		Christopher G. Tate and Randy D. Blakely, "The Effect of N-Linked Glycosylation on Activity of the Na <sup>+</sup> - and Cl <sup>-</sup> Dependent Serotonin Transporter Expressed Using Recombinant Baculovirus in Insect Cells," The Journal of Biological Chemistry, 1994, Vol. 269, No. 42, Pages 26303-26310.
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		Ralf Niehues et al., "Carbohydrate-Deficient Glycoprotein Syndrome Type 1b," J. Clin. Invest., April 1998, Vol. 101, No. 7, Pages 1414-1420.
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		K. Panneerselvam et al., "Abnormal Metabolism of Mannose in Families with Carbohydrate-Deficient Glycoprotein Syndrome Type I," Biochemical and Molecular Medicine, 1997, Vol. 61, Pages 161-167.
		Taco W. Kuijpers, et al., "Antigen-Specific Immune Responsiveness and Lymphocyte Recruitment In Leukocyte Adhesion Deficiency Type II," International Immunology, 1997, Vol. 9, No. 4, Pages 607-613.
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		Rajneesh Malhotra, et al., "Glycosylation Changes of IgG Associated with Rheumatoid Arthritis Can Activate Complement Via the Mannose-Binding Protein," Nature Medicine, March 1995, Vol. 1, No. 3, Pages 237-243.
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		Barry P. Peters, et al., "O-Glycosylation of the $\alpha$ -Subunit Does Not Limit the Assembly of Chorionic Gonadotropin $\alpha\beta$ Dimer in Human Malignant and Nonmalignant Trophoblast Cells," Endocrinology, 1989, Vol. 124, No. 4, Pages 1602-1612.		
		James M. Roseman, et al., "The Effect of L-Fucose on Rat Mammary Tumor Growth, II <i>In Vitro</i> Studies" Journal of Surgical Oncology, 1971, Vol. 3(1), Pages 79-88.		
		Daniel Wolfe, et al., "The Effect of L-Fucose on Rat Mammary Tumor Growth, I. <i>In Vivo</i> Studies" Journal of Surgical Oncology, 1971, Vol. 3(1), pages 73-77.		
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		Ghislain Opdenakker, et al., "Cells Regulate the Activities of Cytokines by Glycosylation," The FASEB Journal, March 1995, Vol. 9, Pages 456-457.		
Examiner Signature			Date Considered	

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In place of PTO-1449 Form		U. S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				Application Number	10/797,344
				Filing Date	March 10, 2004
				Applicant(s)	McAnalley et al.
				Art Unit	1654
				Examiner Name	Unknown
SHEET	9	of	10	Attorney Docket Number	23100.64

OTHER PRIOR ART		
Examiner's Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item, date, page(s), volume- issue number(s), publisher, city/country where published
		Andrew V. Muchmore and Jean M. Decker, "An Immunosuppressive 85-Kilodalton Glycoprotein Isolated From Human Pregnancy Urine is a High Affinity Ligand for Recombinant Interleukin 1 $\alpha$ ," The Journal of Biological Chemistry, 1986, Vol. 261, No. 29, Pages 13404-13407.
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		Bruce D. Weintraub, "TSH Immunoassay: Relationship Between Glycosylation & Bioactivity," Nucl. Med. Biol., 1990, Vol. 17, No. 7, Pages 657-660.

Examiner Signature		Date Considered	
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OTHER PRIOR ART		
Examiner's Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item, date, page(s), volume- issue number(s), publisher, city/country where published
		John W. Cassels, et al., "Reduced Metabolic Clearance of Acidic Variants of Human Chriogonadotropin From Patients With Testicular Cancer," Cancer, 1989, Vol. 64, Pages 2313-2318.
		Wolfgang Jelkmann, "Erythropoietin: Structure, Control of Production, and Function," Physiological Reviews, April 1992, Vol. 72, No. 2, Pages 449-489.
		Alfredo Ulloa-Aguirre, et al., "Immunological and Biological Potencies of the Different Molecular Species of Gonadotrophins," Human Reproduction, 1988, Vol. 3, No. 4, Pages 491-501.
		Eric D. Green and Jacques U. Baenziger, "Asparagine-Linked Oligosaccharides on Lutropin, Follitropin, and Thyrotropin," The Journal of Biological Chemistry, 1988, Vol. 263, No. 1, Pages 36-44.
		Eric D. Green, et al., "Differential processing of Asn-Linked Oligosaccharides on Pituitary Glycoprotein Hormones: Implications for Biologic Function," Molecular and Cellular Biochemistry, 1986, Vol. 72, Pages 81-100.
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		Eylard V. Van Hall, et al., "Immunological and Biological Activity of HCG Following Progressive Desialytation," February 1971, Vol. 88, Pages 456-464.
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